



KONICA MINOLTA

JETVARNISH 3D 52 L
Digital varnish & iFOIL

CRITS ÉPARS
Gerard Cazalis



FEEL THE DIFFERENCE

RETHINK INNOVATION WITH 3D RAISED EFFECTS WITH ACCENTS OF COLOURED FOIL

Giving Shape to Ideas

INNOVATION THAT TAKES YOUR BUSINESS TO ANOTHER DIMENSION.

Gain new customers and increase profits with visually stunning, tactile pieces.

Success today means having a business that's multi-dimensional. The JETvarnish 3D 52L adds opportunities to your business by featuring increased throughput for flat spot UV jobs and amazing 3D raised effects. It's made for operations with digital and offset presses up to 57 x 120 cm (22.4" x 47") format. And it's the perfect solution for 3D or traditional spot UV coating on runs from one to thousands — providing printers with true value-added services.

INSTANT PRODUCTION

The JETvarnish 3D 52L allows for fast startup without plates, screens or waste, producing anything from one to several thousand sheets per hour with ease. On the same document, the JETvarnish 3D 52L can change the coating thickness from 7 to 232 microns (μm), depending on the user's defined areas.

DIGITAL ADVANTAGE

With extended formats ranging up to 57 x 120 cm (22.4" x 47") and weights up to 600 gsm, you can use the JETvarnish 3D 52L to upsell each one of your regular printed jobs into high margin spot UV jobs. The 100% digital JETvarnish 3D 52L allows you to take a few sheets from a job and spot UV coat it, producing a sellable proof so your customers can see the potential and additional visibility and impact that their jobs could have.

3D SPOT UV COAT DIRECTLY ONTO DIGITAL PRINTS

No lamination required. Take advantage of our newly redesigned coating formula coupled with the ability to precisely vary the level of coating thickness on each sheet along with the revolutionary Artificial Intelligence SmartScanner® (AIS) registration technology to give your digital prints an additional WOW factor. The variable data option adds full personalization capabilities for maximum marketing impact.

INKJET TECHNOLOGY

Konica Minolta's exclusive inkjet technology brings you the quality you deserve, from the first page to the very last. Precise piezo (drop on demand) printheads allow for lines as small as 0.5 mm (1/144") or as wide as the sheet (max. print width 54 cm (21.3")). With our patented coating formula, users can switch from one job to another with no equipment cleaning required.

HIGH-CAPACITY TANK

For your medium and long runs, the JETvarnish 3D 52L comes standard with a high-capacity tank (HCT) containing 18 litres of coating. No need to refill your tank as often so you save time and money.

UV CURING

The JETvarnish 3D 52L's integrated UV curing dries sheets "on-the-fly" via a conveyor belt, with no solvents required. Sheets are completely dry upon entering the high-capacity stacker and can be immediately handled.





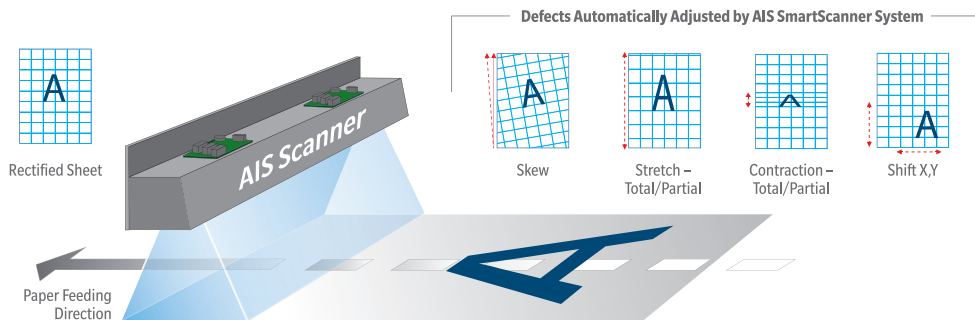
ARTIFICIAL INTELLIGENCE SMARTSCANNER (AIS)

The AIS system is a revolutionary registration development for the printing and finishing industry:

- Eliminates over 80% of operator setup time spent on registration processes
- Allows quick and seamless integration within job workflows with a “scan and register” setup process
- Supports rapid equipment amortization with increased throughput, faster job completion and greater productivity
- Removes unnecessary operator wage costs and paper makeready waste

The patented AIS system uses artificial intelligence to create an automatic varnish and hot foil registration for inkjet heads over the preprinted sheet. It's fully compatible with variable data finishing (VDF) jobs. Using print image and inkjet synchronization algorithms, the AIS system runs at more than 5 billion operations per second. Without operator intervention or a decrease in feeding speed, it makes corrections and adjustments for any defects generated by the original offset or digital printing run and lamination process. For example:

- Sheet and image skew
- Sheet and image stretch — partial or total
- Sheet and image contraction — partial or total
- Sheet and image shift on X and/or Y direction



MORE FEATURES FOR MORE ADDED VALUE

iFOIL DIGITAL EMBOSSING AND HOT FOIL STAMPING

The JETvarnish 3D 52L offers a fully integrated, in-line option to add to the award-winning iFOIL L Hot Foiling System. This module can be installed at the time of purchase or in a future upgrade. The scalability of foil customization and personalization enables printers and trade finishers to expand into profitable new market segments. Spectacular and unique effects are now available within a 100% digital process:

- Embossing from 7 to 232 microns (μm)
- Multiple coloured foils applied in one pass (up to three colours)
- Variable data foiling (VDF) with 2D/3D UV coating
- Foil over foil to create dramatic special effects
- Unique capability to foil and emboss on plastic (including on Polypropylene/PP)

The JETvarnish 3D 52L and iFOIL L combinations create both visual and tactile excitement that print buyers, end users and brand owners are looking for, to distinguish their products in the marketplace.

VARIABLE DATA PRINTING (VDP)

The JETvarnish 3D 52L opens a world of possibilities with its variable data printing option. Just imagine the impact it will have, pushing the limits on personalizing documents with varnish and hot foil variable data printing.

You'll be able to make basic customization with standard information such as name, address, sentence, etc. Or you can realize full customization with multiple criteria such as images, text, layout, etc., to create a truly unique piece.

A high-performance PC RIP with software and barcode camera are included with the VDP option.

IMPROVED PRINTABILITY ON VARIOUS SUBSTRATES

The Corona Surface Treatment System (CSTS) is an optional module that works in-line with the JETvarnish 3D 52L. It's a well-proven and simple way to modify the surface tension of a substrate to improve the printability of a variety of substrate materials, regardless of the printing process. It minimizes using the time consuming and costly lamination process.

Before the corona treatment, some substrates have a low surface energy, not allowing the varnish to “wet” homogeneously to the substrate, thus creating surface defects.

The CSTS uses an electric discharge transferred on the substrate using an electrode. The surface of the substrate is modified and better prepared prior to spot coating and eventually hot foiling. CSTS really pays off by increasing the dyne level or surface energy of the material, allowing the varnish to be perfectly laid.

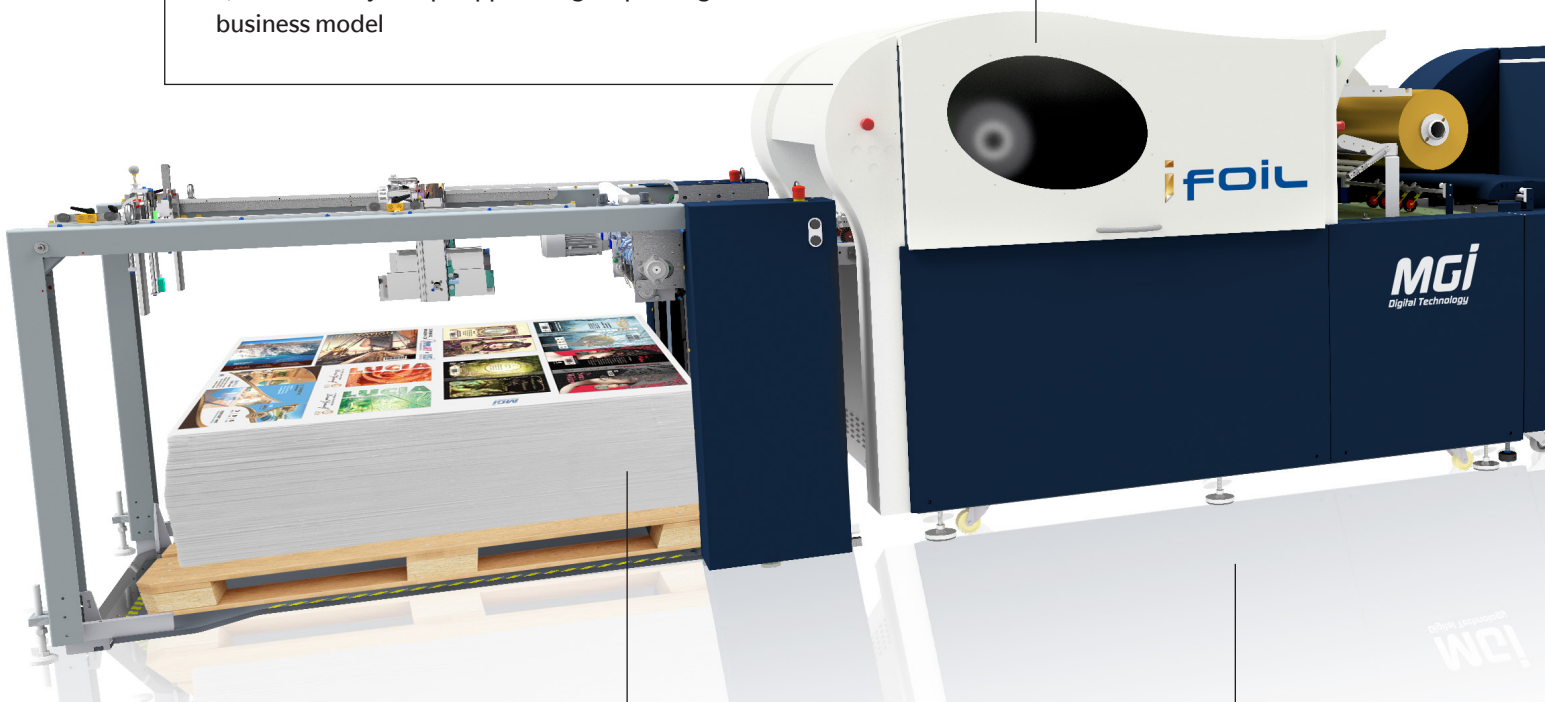
THE ADVANTAGES OF DIGITAL PRINT ENHANCEMENT WITH THE JETvarnish 3D 52L & iFOIL L RETHINK THE VALUE OF 3D EMBELLISHMENT

VARNISH DIGITAL AND OFFSET PRINTS

- Varnishing on toner without lamination
- Varnishing on offset prints
- Accurate sheet-to-sheet registration with Artificial Intelligence SmartScanner® technology
- Quick and easy setup supports digital printing business model

iFOIL L OPTION

- Industry-first fully digital variable data foiling
- Superior adhesion using hot foil stamping technique
- 2D and 3D embossed effects
- With OptiFOIL film optimization & foil roll management



PALLET STACKER

- High-capacity stacker able to handle a paper pile up to 60 cm / 23.6" high for 57 x 120 cm (22.4" x 47") sheets
- Approximately 4,000 sheets at 135 gsm

HIGH-PRODUCTIVITY WITH SINGLE-PASS PRINTING

- Up to 3,123 B2 sheets per hour with varnish thickness of 7 µm (2D/flat mode)
- 1,750 B2 sheets per hour with varnish thickness of 28 µm (3D mode)

VARIABLE DATA PRINTING (VDP)

- For variable data printing (text/graphic and image) on 2D/3D spot coating areas
- Optional VDP barcode scanner available

POWERFUL SOFTWARE SUITE

- On-the-fly job manager
- Workstation image editor
- Catalogue of different patterns
- Job cost calculator that estimates production costs before quoting jobs
- Intuitive operation
- Eliminates customer prepress issues
- Saves time and money

PROPRIETARY INKJET TECHNOLOGY

- Exclusive inkjet technology
- Uses Konica Minolta's genuine piezoelectric Printheads
- Flexible printing architecture

CORONA TREATMENT SYSTEM (CTS) OPTION

- Optional in-line system enables a broader variety of media to be used such as a wider variety of plastics
- Improves varnish adhesion and maximizes embellishment quality on digital prints

AUTOMATIC SHEET-FED FEEDER

- High-capacity feeder able to handle a paper pile up to 60 cm / 23.6" high for 57 x 120 cm (22.4" x 47") sheets.
- Approximately 4,000 sheets at 135 gsm.

UNIVERSAL VARNISH

- No need to change varnish or clean between jobs
- Varnish comes in a 18-litre tank

VARIABLE VARNISH THICKNESS

- Can be adapted to individual customer needs
- Minimum thickness: from 7 µm
- Maximum 3D effect: up to 232 µm

ARTIFICIAL INTELLIGENCE SMARTSCANNER®

- Full page scanner
- No crop marks required
- Coating registration from sheet-to-sheet
- On-the-fly skew, shift, contraction and stretch adjustment





Of Achievement

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SIGNATURE



JOHN SMITH
Production Printing Expert

📍 **Smith GmbH & Co. KG**
Roe Rd
London E16 2PX
United Kingdom
☎ +44 20 7646 0000
✉ john.smith@smith.uk
🌐 www.smith.uk

SOFTWARE SUITE & TOUCHSCREEN INTERFACE



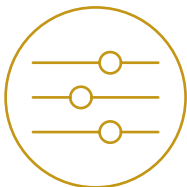
SOFTWARE SUITE AND TOUCHSCREEN INTERFACE

The JETvarnish 3D 52L has an innovative software suite that includes management tools such as: a job cost calculator, workstation image editor, reprinting utility, AIS SmartScanner setup and variable data controller. All job management functions operate via intuitive touchscreen interface. This software suite allows operators to manage all operations related to production and maintenance, via the workstation interface.



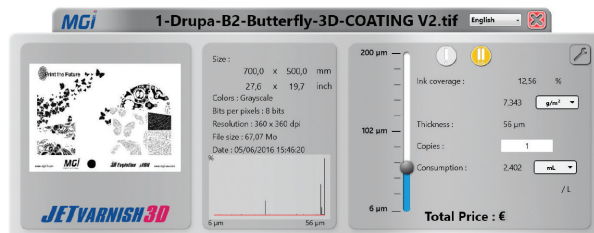
JOB COST CALCULATOR

Based on your job's image file, this powerful calculator forecasts varnish consumption costs down to the penny. This has never been possible before on traditional spot coating technologies. This powerful function automatically calculates precise production costs in advance of actual production. It is a valuable tool for managing supply costs and making accurate job estimates. This software can be also available on a PC for your pricing and sales departments.



SPOT VARNISH EDITOR

An easy to use graphical tool for editing job files at the workstation. This utility allows production operators to quickly modify enhancements without going back to prepress. This software saves time and allows operators to set up jobs in minutes and conduct rapid prototyping directly from the equipment workstation. Varnish and foil enhancements are designed for high production work environments.



JETvarnish 3D 52L

DIGITAL PRINT EMBELLISHMENT PRESS

TECHNICAL SPECIFICATIONS

Printing technology	<ul style="list-style-type: none"> • Konica Minolta's exclusive inkjet engine technology • Drop-on-Demand (DOD) inkjet application • Piezoelectric printheads in single pass printing • Flexible and scalable architecture
Variable coating thicknesses	Depending on your file and the substrate used, the coating thickness can vary from a traditional flat spot UV coating of 7 µm up to 232 µm for 3D raised texture effects and a tactile finish.
Production speed ⁽¹⁾	Up to 3,123 B2 sheets size per hour (flat spot UV coating or 2D)
Registration	Left and right motorized registration side guides. Automatic registration using the built-in AIS SmartScanner technology for real-time management of entire sheet. No registration marks required. Overall registration of ± 200 µm.
Managed paper formats ⁽²⁾	Min.: 42 x 29.7 cm / 16.5" x 11.5" (A3 in landscape mode) Max.: 57 x 120 cm / 22.4" x 47" 75 x 120 cm / 29.5" x 47"
Printable width areas	54 x 118 cm / 21.3" x 46.5"
Substrate thickness ⁽³⁾	Min.: 135 gsm and not less than 150 µm / 6 mil before printing and lamination Max.: Up to 600 gsm
Substrate compatibility ⁽³⁾	Enhancement on most matte or glossy laminated surfaces, with or without aqueous coating, layered paper, plastic, PVC and other coated materials. Spot 3D coat directly onto most digital prints.
UV coatings and capacity	One coating tank for both 2D and 3D applications. One high-capacity tank of 18 litres. "On-the-fly" tank changeover possible during production without any interruption or waste.
Automatic sheet-fed feeder	High-capacity feeder able to handle a paper pile up to 60 cm / 23.6" high for 57 x 120 cm (22.4" x 47") sheets. Approximately 4,000 sheets at 135 gsm.
Pallet stacker	High-capacity stacker able to accommodate stakes up to 60 cm / 23.6" high for 57 x 120 cm (22.4" x 47") sheets. Approximately 4,000 sheets at 135 gsm.
Paper path	<ul style="list-style-type: none"> • 100% flat paper path • Vacuum feed system • Air feed system • Automatic double sheet detection
In-line UV dryer	"On-the-fly" drying and curing via integrated UV lamps
Front-end system	<ul style="list-style-type: none"> • Intuitive touchscreen software management suite controlled by a 27" monitor • Includes functions for operators: Job cost calculator, image editor, queue manager and reprint, camera and printhead settings • Dedicated controller for equipment settings and technical data • Ethernet connection 10/100/1000 BT in RJ 45

iFOIL L	<p>Optional Digital Hot Foiling module application</p> <ul style="list-style-type: none"> • Production speed: Up to 1,750 ⁽¹⁾ B2 sheets size per hour (or up to 25 m / 65.6' per minute) • Films: Optimization system of film consumption • Film Rolls: Max. roll diameter and length: ± 30 cm / 11.8" and from 400 – 2,000 m / 1,300' – 6,500' of film. Up to three simultaneous film rolls on the same axis (with a minimum of 10 cm / 3.9" per roll). Two cores available: 1" and 3" • Maximum surface: Hot foil substrate surface cannot exceed 57 x 118 cm (22.4" x 46.5") ⁽⁴⁾ • Embossing: 3D hot foil raised effects. The surface of the metallized film may be covered with a layer of varnish or another foil
Other options	<ul style="list-style-type: none"> • Corona ⁽⁵⁾⁽⁶⁾ substrates treatment module: In-line system made to optimize varnish adhesion on complex printed substrates • Pallet feeder: Supports sheets up to size 75 x 120 cm / 29.5" x 47" • Pallet stacker: Supports sheets up to size 75 x 120 cm / 29.5" x 47" • Variable data printing (VDP) • Manage and edit files on the workstation • Full variable data (text, graphic, image) for both 2D/3D spot coating and hot foiling areas • Integrated barcode (1D/2D) reader system and controller • Raster image processor (RIP) as an option
Maintenance and remote technical support	<ul style="list-style-type: none"> • Daily maintenance completed in less than 10 minutes • Majority of procedures are automated • From cold start to production in less than 15 minutes • Remote troubleshooting and support via included web video camera (high-speed internet connection required)
Dimensions and weight	Up to 12.42 x 1.93 x 1.84 m / 40.7' x 6.3' x 6.0' (L x W x H) ⁽⁷⁾
JETvarnish 3D 52L + iFOIL L	Necessary clearance: 1 m / 3.3' on four sides Up to ± 4,529 kg / 9,984 lbs ⁽⁷⁾
Dry air requirements	An on-site dry air system is necessary
Electrical requirements	JETvarnish 3D: 400 V, 50/60 Hz, 32A (63A plug) + iFOIL L: 400 V, 50/60 Hz, 25A (32A plug)
Operating environment	Temperature: From 18 – 30°C / 64 – 86°F Relative humidity: Between 30 and 50% (no condensation)

The default sheet size is B2 ISO (50 x 70.7 cm / 19.7" x 27.8") unless otherwise stated. All speeds are nominal.

(1) Speed will vary according to printing parameter used.

(2) With the pallet feeder and stacker options.

(3) Confirm substrate/lamination/toner/metallic film compatibility with Konica Minolta.

(4) Standard configuration.

(5) Require substrate above 42 cm width.

(6) Require paper above 250 gsm / 250 µm.

(7) Depending on the configuration selected.

LOWER ENVIRONMENTAL IMPACT

- Enhanced UV protection with lower energy consumption than traditional UV systems
- No makeready, plates (offset), screens (silkscreens), dies (hot foiling) or waste (electricity, paper, varnish and time)
- Reduction of consumables (elimination of plastics)
- Closed-circuit system to minimize varnish consumption, thus preventing waste

For more information about Konica Minolta products and solutions, please visit: www.konicaminolta.ca

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KONICA MINOLTA

KONICA MINOLTA BUSINESS SOLUTIONS (CANADA) LTD.

5875 Explorer Drive, Suite 100

Mississauga, Ontario, L4W 0E1

www.konicaminolta.ca



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